```
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Jan 25  BLAST(R) searching in REGISTRY available in STN on the Web
 NEWS  3  Jan 29  FSTA has been reloaded and moves to weekly updates
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 NEWS 19  Jun 03  New e-mail delivery for search results now available
 NEWS 20  Jun 10  MEDLINE Reload
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 NEWS 22  Jul 02  FOREGE no longer contains STANDARDS file segment

 NEWS EXPRESS  February 1 CURRENT WINDOWS VERSION IS V6.0d,
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FILE 'HOME' ENTERED AT 10:17:49 ON 09 JUL 2002

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
       BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
       CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
       DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
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61 FILES IN THE FILE LIST IN STNINDEX
```

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                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.53       0.74

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STRUCTURE FILE UPDATES:    8 JUL 2002  HIGHEST RN 437701-77-4
DICTIONARY FILE UPDATES:   8 JUL 2002  HIGHEST RN 437701-77-4

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e oleuropein/cn

E1            1     OLEUM SINAPIS/CN
E2            1     OLEUROPEIC ACID/CN
E3            1 --> OLEUROPEIN/CN
E4            1     OLEUROPEIN AGLYCON/CN
E5            1     OLEUROPEIN AGLYCONE/CN
E6            1     OLEUROPEINDIAL/CN
E7            1     OLEUROPEINE/CN
E8            1     OLEUROPEINE AGLYCONE/CN
E9            1     OLEUROPEINIC ACID/CN
E10           1     OLEUROPEOSIDE/CN
E11           1     OLEUROSIDE/CN
E12           1     OLEUROSIDE HEXAACETATE/CN

=> s e3

L1            1 OLEUROPEIN/CN

=> d l1


L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2002 ACS
RN   32619-42-4  REGISTRY
CN   2H-Pyran-4-acetic acid, 3-ethylidene-2-(.beta.-D-glucopyranosyloxy)-3,4-
     dihydro-5-(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
     (2S,3E,4S)- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2H-Pyran-4-acetic acid, 3-ethylidene-2-(.beta.-D-glucopyranosyloxy)-3,4-
     dihydro-5-(methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
     [2S-(2.alpha.,3E,4.beta.)]-
CN   2H-Pyran-4-acetic acid, 5-carboxy-3-ethylidene-2-(.beta.-D-glucosyloxy)-
     3,4-dihydro-, 3,4-dihydroxyphenethyl 5-methyl ester (7CI)
CN     ***Oleuropein (8CI)***
OTHER NAMES:
CN   Oleoeuropein
CN   Oleoeuropeine
CN   Oleuropeine
FS   STEREOSEARCH
DR   163436-64-4, 1392-73-0, 37341-33-6, 4809-64-7, 30675-34-4
MF   C25 H32 O13
```

```
LC   STN Files:   AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CHEMCATS, CHEMLIST,
       CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT,
       TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.  Rotation (-).
Double bond geometry as shown.



/ Structure 1 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             289 REFERENCES IN FILE CA (1967 TO DATE)
               5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             289 REFERENCES IN FILE CAPLUS (1967 TO DATE)
               2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> s e4

L2           1 "OLEUROPEIN AGLYCON"/CN

=> d l2


L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2002 ACS
RN   31773-95-2  REGISTRY
CN   2H-Pyran-4-acetic acid, 3-ethylidene-3,4-dihydro-2-hydroxy-5-
     (methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester, (2R,3E,4S)- (9CI)
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2H-Pyran-4-acetic acid, 3-ethylidene-3,4-dihydro-2-hydroxy-5-
     (methoxycarbonyl)-, 2-(3,4-dihydroxyphenyl)ethyl ester,
     [2R-(2.alpha.,3E,4.beta.)]-
CN   2H-Pyran-4-acetic acid, 5-carboxy-3-ethylidene-3,4-dihydro-2-hydroxy-,
     4-(3,4-dihydroxyphenethyl) 5-methyl ester (8CI)
OTHER NAMES:
CN   Oleoeuropein aglycone
CN   Oleoeuropeine aglycone
CN     ***Oleuropein aglycon***
CN   Oleuropein aglycone
CN   Oleuropeine aglycone
FS   STEREOSEARCH
DR   11039-64-8, 171752-97-9
MF   C19 H22 O8
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
       TOXCENTER
         (*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry as shown.



/ Structure 2 in file .gra /


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              56 REFERENCES IN FILE CA (1967 TO DATE)
               3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              57 REFERENCES IN FILE CAPLUS (1967 TO DATE)


=>
```

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

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FULL ESTIMATED COST	11.92	12.66

STN INTERNATIONAL LOGOFF AT 10:19:29 ON 09 JUL 2002

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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
       BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
       CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
       DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
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61 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
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=> s olive? or olea europa?

        129   FILE ADISALERTS
          3   FILE ADISINSIGHT
         24   FILE ADISNEWS
       5306   FILE AGRICOLA
        673   FILE ANABSTR
        646   FILE AQUASCI
       2327   FILE BIOBUSINESS
         78   FILE BIOCOMMERCE
      12498   FILE BIOSIS
        806   FILE BIOTECHABS
        806   FILE BIOTECHDS
       1462   FILE BIOTECHNO
       9298   FILE CABA
        680   FILE CANCERLIT
      26444   FILE CAPLUS
        515   FILE CEABA-VTB
        132   FILE CEN
       1276   FILE CIN
        258   FILE CONFSCI
        369   FILE CROPB
        603   FILE CROPU
        241   FILE DDFB
        544   FILE DDFU
        252   FILE DGENE
        241   FILE DRUGB
         39   FILE DRUGLAUNCH
         61   FILE DRUGMONOG2
          9   FILE DRUGNL
       1279   FILE DRUGU
         14   FILE DRUGUPDATES
<------User Break------>
u
=> s olive? or olea(a) europa?

        129   FILE ADISALERTS
          3   FILE ADISINSIGHT
         24   FILE ADISNEWS
       5306   FILE AGRICOLA
        673   FILE ANABSTR
        646   FILE AQUASCI
       2327   FILE BIOBUSINESS
         78   FILE BIOCOMMERCE
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      12498   FILE BIOSIS
        806   FILE BIOTECHABS
        806   FILE BIOTECHDS
       1462   FILE BIOTECHNO
       9298   FILE CABA
        680   FILE CANCERLIT
      26444   FILE CAPLUS
        515   FILE CEABA-VTB
        132   FILE CEN
       1276   FILE CIN
        258   FILE CONFSCI
        369   FILE CROPB
        603   FILE CROPU
        241   FILE DDFB
        544   FILE DDFU
        252   FILE DGENE
        241   FILE DRUGB
         39   FILE DRUGLAUNCH
         61   FILE DRUGMONOG2
          9   FILE DRUGNL
       1279   FILE DRUGU
         14   FILE DRUGUPDATES
         82   FILE EMBAL
       6850   FILE EMBASE
       2795   FILE ESBIOBASE
        149   FILE FEDRIP
       1155   FILE FOMAD
        662   FILE FOREGE
       4081   FILE FROSTI
       4467   FILE FSTA
      14799   FILE GENBANK
         69   FILE HEALSAFE
       1507   FILE IFIPAT
        920   FILE JICST-EPLUS
         96   FILE KOSMET
  43 FILES SEARCHED...
       2920   FILE LIFESCI
          8   FILE MEDICONF
       5982   FILE MEDLINE
        414   FILE NIOSHTIC
        404   FILE NTIS
        199   FILE OCEAN
       6656   FILE PASCAL
          4   FILE PHAR
          1   FILE PHIC
        447   FILE PHIN
      37872   FILE PROMT
       9303   FILE SCISEARCH
          3   FILE SYNTHLINE
       5792   FILE TOXCENTER
      24177   FILE USPATFULL
        146   FILE USPAT2
       4214   FILE WPIDS
       4214   FILE WPINDEX

  61 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L1   QUE OLIVE? OR OLEA(A) EUROPA?

=> s l1 (3a) (leaf or leaves or leafe or leafes)

        126   FILE AGRICOLA
         29   FILE ANABSTR
          6   FILE AQUASCI
         45   FILE BIOBUSINESS
          1   FILE BIOCOMMERCE
        283   FILE BIOSIS
          6   FILE BIOTECHABS
          6   FILE BIOTECHDS
         28   FILE BIOTECHNO
        368   FILE CABA
```

```
       480   FILE CAPLUS
         1   FILE CEABA-VTB
         3   FILE CIN
         3   FILE CONFSCI
  19 FILES SEARCHED...
        15   FILE CROPB
        36   FILE CROPU
         3   FILE DDFB
        14   FILE DDFU
         3   FILE DRUGB
         8   FILE DRUGLAUNCH
         2   FILE DRUGMONOG2
        14   FILE DRUGU
         2   FILE EMBAL
        69   FILE EMBASE
        65   FILE ESBIOBASE
        45   FILE FROSTI
        35   FILE FSTA
         6   FILE GENBANK
         2   FILE HEALSAFE
        15   FILE IFIPAT
        21   FILE JICST-EPLUS
        10   FILE KOSMET
        36   FILE LIFESCI
        52   FILE MEDLINE
         2   FILE NIOSHTIC
         3   FILE NTIS
       128   FILE PASCAL
  50 FILES SEARCHED...
       167   FILE PROMT
       192   FILE SCISEARCH
        84   FILE TOXCENTER
        86   FILE USPATFULL
        74   FILE WPIDS
        74   FILE WPINDEX

  43 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L2   QUE L1 (3A) (LEAF OR LEAVES OR LEAFE OR LEAFES)

=> s l2 (s) (alcohol? or methanol? or ethanol?) or (lyophiliz? or freez? or boil?)

       142   FILE ADISALERTS
        16   FILE ADISINSIGHT
        56   FILE ADISNEWS
     14198   FILE AGRICOLA
      8373   FILE ANABSTR
      7331   FILE AQUASCI
      7808   FILE BIOBUSINESS
       232   FILE BIOCOMMERCE
     62041   FILE BIOSIS
      5886   FILE BIOTECHABS
      5886   FILE BIOTECHDS
      8794   FILE BIOTECHNO
     33840   FILE CABA
      4715   FILE CANCERLIT
<------User Break------>
u
=> s l2 (s) ((alcohol? or methanol? or ethanol?) or (lyophiliz? or freez? or boil?))

         2   FILE AGRICOLA
         6   FILE ANABSTR
         2   FILE BIOBUSINESS
        20   FILE BIOSIS
         1   FILE BIOTECHABS
         1   FILE BIOTECHDS
         2   FILE BIOTECHNO
        16   FILE CABA
        25   FILE CAPLUS
         2   FILE CROPU
  22 FILES SEARCHED...
```

```
          5   FILE DDFU
          5   FILE DRUGU
          9   FILE EMBASE
          4   FILE ESBIOBASE
          0*  FILE FEDRIP
          8   FILE FROSTI
          6   FILE FSTA
  39 FILES SEARCHED...
          3   FILE IFIPAT
          4   FILE JICST-EPLUS
          1   FILE KOSMET
          9   FILE MEDLINE
          2   FILE NIOSHTIC
         13   FILE PASCAL
         10   FILE PROMT
  54 FILES SEARCHED...
         13   FILE SCISEARCH
          2   FILE TOXCENTER
         10   FILE USPATFULL
         17   FILE WPIDS
         17   FILE WPINDEX

  28 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L3   QUE L2 (S) ((ALCOHOL? OR METHANOL? OR ETHANOL?) OR (LYOPHILIZ? OR FREEZ? O
       R BOIL?))

=> s l3 (s) (benzene or chloroform or hexane)

          1   FILE AGRICOLA
          2   FILE ANABSTR
          3   FILE BIOSIS
          1   FILE BIOTECHABS
          1   FILE BIOTECHDS
          3   FILE CABA
  21 FILES SEARCHED...
          1   FILE EMBASE
          1   FILE ESBIOBASE
          0*  FILE FEDRIP
          1   FILE FSTA
  39 FILES SEARCHED...
          1   FILE JICST-EPLUS
          1   FILE MEDLINE
          2   FILE PASCAL
          2   FILE SCISEARCH
  56 FILES SEARCHED...
          1   FILE USPATFULL
          3   FILE WPIDS
          3   FILE WPINDEX

  16 FILES HAVE ONE OR MORE ANSWERS,   61 FILES SEARCHED IN STNINDEX

L4   QUE L3 (S) (BENZENE OR CHLOROFORM OR HEXANE)

=> d rank

F1            3   BIOSIS
F2            3   CABA
F3            3   WPIDS
F4            3   WPINDEX
F5            2   ANABSTR
F6            2   PASCAL
F7            2   SCISEARCH
F8            1   AGRICOLA
F9            1   BIOTECHABS
F10           1   BIOTECHDS
F11           1   EMBASE
F12           1   ESBIOBASE
F13           1   FSTA
F14           1   JICST-EPLUS
F15           1   MEDLINE
```

```
F16          1   USPATFULL


=> fil f1-f2, f5-f115

'F5-F115' EXCEEDS F# RANGE 'F1-F61'
ENTER A FILE NAME OR (IGNORE):f15

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       6.36       6.57

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=> fil f1-f2, f5-f15

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       1.66       8.23

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=> s l4

   7 FILES SEARCHED...
L5          19 L4

=> dup rem l5
```

PROCESSING COMPLETED FOR L5
L6 7 DUP REM L5 (12 DUPLICATES REMOVED)

=> d l6 1- all

YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1999:394658 BIOSIS
DN PREV199900394658
TI Improvement in the turnover rate of the stratum corneum in false aged model rats by the administration of geniposidic acid in Eucommia ulmoides Oliver leaf.
AU Li, Yanmei; Metori, Koichi; Koike, Katsuya (1); Che, Qing-ming; Takahashi, Shushichi
CS (1) Biochemistry Laboratory, College of Pharmacy, Nihon University, 7-7-1 Narashino-dai, Funabashi, Chiba, 274-8555 Japan
SO Biological & Pharmaceutical Bulletin, (June, 1999) Vol. 22, No. 6, pp. 582-585.
ISSN: 0918-6158.
DT Article
LA English
SL English
AB We earlier reported that collagen synthesis in false aged model rats was stimulated by the administration of a ***methanol*** extract from the ***leaves*** of Eucommia ulmoides ***Oliver*** . When the ***methanol*** extract was fractionated to n- ***hexane*** , ethyl acetate, acetone and ***methanol*** fractions by silica gel chromatography, we discovered that geniposidic acid and aucubin, contained in the acetone fraction, were the active ingredients. In the current study, we set out to examine if active compounds found in the Eucommia ulmoides ***Oliver*** ***leaf*** (EUOL) improved the low turnover rate in the stratum corneum of false aged model rats. The turnover rate in the stratum corneum in rats was measured as 50% dansyl chloride clearance day. In the first experiment, administration of a 2.4% water soluble ***methanol*** extract (WSME) of EUOL, along with an 11% protein diet, led to a 20% higher turnover rate in the stratum corneum ($p<0.05$, Mann-Whitney) than the control value. The WSME mainly contained iridoid mono-glycosides such as geniposidic acid. In the second experiment, treatment with geniposidic acid similarly caused a higher turnover rate in the stratum corneum, increasing turnover by 23% ($p<0.05$, Mann-Whitney) compared to the control value. In this paper we reveal that the WSME contains compounds effective against aging, and one of them is geniposidic acid.
CC Pharmacognosy and Pharmaceutical Botany *54000
Biochemical Studies - General *10060
Metabolism - General Metabolism; Metabolic Pathways *13002
Integumentary System - General; Methods *18501
Pharmacology - General *22002
Gerontology *24500
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents *51522
BC Eucommiaceae 26045
Muridae 86375
IT Major Concepts
Aging; Integumentary System (Chemical Coordination and Homeostasis); Pharmacognosy (Pharmacology)
IT Parts, Structures, & Systems of Organisms
leaves; stratum corneum: integumentary system, turnover rate
IT Chemicals & Biochemicals
aucubin; collagen: synthesis; geniposidic acid; Eucommia ulmoides methanol extract: anti-aging effect, metabolic - drug
ORGN Super Taxa
Eucommiaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae; Muridae: Rodentia, Mammalia, Vertebrata, Chordata, Animalia
ORGN Organism Name
rat (Muridae): animal model; Eucommia ulmoides (Eucommiaceae): medicinal plant
ORGN Organism Superterms

Angiosperms; Animals; Chordates; Dicots; Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Plants; Rodents; Spermatophytes; Vascular Plants; Vertebrates

RN 479-98-1 (AUCUBIN)
27741-01-1 (GENIPOSIDIC ACID)

L6 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AN 1998:369199 BIOSIS
DN PREV199800369199
TI Supercritical fluid extraction of phenol compounds from olive leaves.
AU Le Floch, F.; Tena, M. T.; Rios, A.; Valcarcel, M. (1)
CS (1) Dep. Analytical Chem., Fac. Sci., Univ. Cordoba, E-14004 Cordoba Spain
SO Talanta, (Aug., 1998) Vol. 46, No. 5, pp. 1123-1130.
ISSN: 0039-9140.
DT Article
LA English
AB A clean, highly selective supercritical fluid extraction (SFE) method for the isolation of phenols from ***olive*** ***leaf*** samples was examined. Total phenol extracts were determined using the Folin-Ciocalteu reagent. Dried, ground, sieved ***olive*** ***leaf*** samples (30 mg) are subjected to SFE, using carbon dioxide modified with 10% ***methanol*** at 334 bar, 100degreeC (CO2 density 0.70 g ml-1) at a liquid flow-rate of 2 ml min-1 for 140 min. Diatomaceous earth is used to reduce the void volume of the extraction vessel. The influence of extraction variables such as modifier content, pressure, temperature, flow-rate, extraction time, and collection/elution variables, were studied. Supercritical fluid extracts were screened for acid compounds such as carboxylic acids and phenols using Electrospray-MS (in the negative ionization mode). SFE was found to produce higher phenol recoveries than sonication in liquid solvents such as n- ***hexane*** , diethyl ether and ethyl acetate. However, the extraction yield obtained was only 45%, using liquid ***methanol*** .
CC Plant Physiology, Biochemistry and Biophysics - Chemical Constituents *51522
Biochemical Studies - General *10060
Plant Physiology, Biochemistry and Biophysics - Apparatus and Methods *51524
BC Oleaceae 26475
IT Major Concepts
Biochemistry and Molecular Biophysics; Methods and Techniques
IT Chemicals & Biochemicals
carboxylic acids; phenol compounds; Folin-Ciocalteu reagent: Merck, reagent
IT Methods & Equipment
electrospray-MS [electrospray-mass spectrometry]: analytical method, mass spectrometry: CB; supercritical fluid extraction: Analysis/Characterization Techniques: CB, analytical method, extraction method; Fisons VG platform electrospray mass spectrometer: Fisons, laboratory equipment; Fisons VG Autospec mass spectrometer: Fisons, laboratory equipment; Hewlett Packard 8453 diode array spectrophotometer: Hewlett Packard, laboratory equipment; 7680T Hewlett Packard supercritical fluid extractor: Hewlett Packard, laboratory equipment
IT Miscellaneous Descriptors
collection/elution variables; extraction time; flow-rae; modifier content; pressure; temperature
ORGN Super Taxa
Oleaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae
ORGN Organism Name
Olea-europaea [olive] (Oleaceae)
ORGN Organism Superterms
Angiosperms; Dicots; Plants; Spermatophytes; Vascular Plants
RN 108-95-2D (PHENOL)

L6 ANSWER 3 OF 7 CABA COPYRIGHT 2002 CABI
AN 1998:146248 CABA
DN 980310491
TI Lipids of the leaves of Elaeagnus angustifolia. I. Surface lipids
AU Bekker, N. P.; Glushenkova, A. I.
CS Institute of the Chemistry of Plant Substances, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan.

SO Chemistry of Natural Compounds, (1997) Vol. 33, No. 5, pp. 543-544. 3 ref; translated from Khimiya Prirodnykh Soedinenii (1997) 33 (5) 700-702 (Ru). ISSN: 0009-3130
DT Journal
LA English
AB Lipids from the surface layer of the ***leaves*** of Russian ***olive*** (Elaeagnus angustifolia) were extracted by brief immersion in ***chloroform*** and identified by chromatographic and spectroscopic methods. Esters (mainly wax esters and esters of amyrins) constituted 70.5% of the total lipids; the predominating moieties were saturated C20-24 acids and C22-26 ***alcohols*** .
CC FF040 Plant Composition
GT Uzbekistan
BT Elaeagnaceae; Proteales; dicotyledons; angiosperms; Spermatophyta; plants; Elaeagnus; West Asia; Asia; Developed Countries
CT chromatography; extraction; identification; esters; leaves; lipids; wax esters; spectral analysis; ornamental plants; ornamental woody plants
ORGN Elaeagnus; Elaeagnaceae; Elaeagnus angustifolia

L6 ANSWER 4 OF 7 ANABSTR COPYRIGHT 2002 RSC
AN 59(12):H219 ANABSTR
TI Direct identification of phenolic glucosides from olive leaf extracts by atmospheric-pressure-ionization tandem mass spectrometry.
AU De Nino, A.; Lombardo, N.; Perri, E.; Procopio, A.; Raffaelli, A.; Sindona, G. (Dipt. Chim., Univ. Calabria, 87030 Arcavacata di Rende, Italy)
SO J. Mass Spectrom. (1997) 32(5), 533-541
CODEN: JMSPFJ ISSN: 1076-5174
DT Journal
LA English
AB Leaves of Olea europea L. cv. Cassanese (2.5 g) were extracted with ***methanol*** (2 x 25 ml), and the extract was concentrated in vacuum under a stream of nitrogen and partitioned in acetonitrile/ ***hexane*** (2:3 v/v). After evaporation of the solvent, the residue was dissolved in 25 ml ***methanol*** . Chromatography was performed on a 3 .mu.m C18 column (30 cm .times. 4.6 mm i.d.), with gradient elution with acetonitrile/water containing 0.1% formic acid. Positive ion-mode ionspray mass spectra were obtained on a Perkin-Elmer Sciex API III Plus mass spectrometer, using argon as collision gas. FAB spectra were obtained on a VG ZAB-2F mass spectrometer, with samples prepared from 1 .mu.l of a ***methanolic*** solution of analyte mixed with 1 .mu.l of ammonium chloride/glycerol (1:6 w/w). MIKE and MIKE-CID spectra were obtained. Oleuropein, ligstroside and a disaccharide containing the hydroxytyrosol moiety were found in ***olive*** ***leaf*** and their structures determined by tandem MS.
CC *H Environment, Agriculture and Food (60000)
IT Analyte(s):
glucosides; polyphenols
(identn. of, from olive leaf, by atmospheric-pressure-ionization tandem MS)
Matrix:
olive
(identn. of phenolic glucosides from leaves of, by atmospheric-pressure-ionization tandem MS)
Concepts:
mass spectrometry
(tandem, in plant analysis)

L6 ANSWER 5 OF 7 BIOTECHABS COPYRIGHT 2002 THOMSON DERWENT AND ISI
AN 1997-06128 BIOTECHABS
TI Production of glucose and bioactive aglycone by chemical and enzymatic hydrolysis of purified oleuropein from Olea europea; (conference paper)
AU Capasso R; Evidente A; Visca C; Gianfreda L; Maremonti M; Greco Jr G
CS Univ.Naples-Federico-II
LO Dipartimento di Scienze Chimico-Agrarie, Universita di Napoli Federico II, Naples, Italy.
SO Appl.Biochem.Biotechnol.; (1996) 61, 3, 365-77
CODEN: ABIBDL ISSN: 0273-2289
Biocatalysis 95', Proceedings of the International Conference, Suzdal, Russia, 28 August-1 September, 1995.

DT Journal
LA English
AB Beta-glucosidase (bGS, EC-3.2.1.21) hydrolysis of oleuropein was discussed. Also, a simple chromatographic purification procedure was described. Crude oleuropein was extracted from ***leaves*** of ***olive*** plant (Olea europea). Crude oleuropein (2.5 g) was chromatographed through a column packed with silica-gel and eluted with a mixture of n- ***hexane*** -ethyl acetate- ***methanol*** under medium pressure at 14 ml/min. Fractions were collected and analyzed by TLC. Purification yielded 0.28 g of pure oleuropein/ 1 g crude product. 10 ml Of oleuropein in 1 N H2SO4 was kept at 55 deg with stirring. The course of chemical hydrolysis was monitored by TLC every 30 min. Aglycone was obtained from bGS hydrolysis of oleuropin. After 3 hr oleuropein was completely hydrolyzed into glucose, elenolic acid, and hydroxytyrosol. In the enzymatic hydrolysis, a commercial bGS was used without further purification where oleuropein in acetate buffer and the enzyme were incubated at 37 deg. The hydrolysis was characterized in terms of optimal pH value, activation energy and thermal stability. (17 ref)
CC F FOOD; F1 Food and Food Additives; K BIOCATALYSIS; K2 Application
CT GLUCOSE PREP., BIOACTIVE AGLYCONE PREP., ELENOLIC ACID PREP., HYDROXYTYROSOL PREP., CHEM., ENZYMATIC HYDROLYSIS OF OLEUROPEIN FROM OLEA EUROPEA, IMMOBILIZED BETA-GLUCOSIDASE SUGAR ENZYME EC-3.2.1.21 HYPOTENSIVE CARDIANT ANTIARRHYTHMIC SPASMOLYTIC (VOL.16, NO.11)

L6 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3
AN 1993:169029 BIOSIS
DN PREV199395090079
TI Epicuticular wax of olive leaves.
AU Bianchi, Giorgio; Vlahov, Giovanna; Anglani, Caterina; Murelli, Carla
CS Ist. Sperimentale Elaiotecnica, Via C. Battisti 198, 65123-Pescara Italy
SO Phytochemistry (Oxford), (1993) Vol. 32, No. 1, pp. 49-52.
ISSN: 0031-9422.
DT Article
LA English
AB The main components of the ***chloroform*** -soluble epicuticular waxes from ***olive*** tree ***leaves*** (***Olea*** ***europaea*** cvs Coratina and Cipressino), were triterpene oleanolic and betulinic acids and triterpenols sitosterol, alpha-and beta-amyrin, uvaol and erythrodiol. The waxes of both cultivars contain the ubiquitous wax classes of alkanes, ***alcohols*** , aldehydes, fatty acids and alkyl esters. Methyl phenyl esters and 2-phenyl- ***ethanol*** -1-esters were both present in low amounts in cv. Coratina whilst cv. Cipressino contained only the former class of compounds. Furthermore cv. Coratina contained triacylglycerols that were missing in cv. Cipressino wax.
CC Biochemical Studies - General *10060
Biochemical Studies - Lipids *10066
Biochemical Studies - Sterols and Steroids *10067
Plant Physiology, Biochemistry and Biophysics - Chemical Constituents *51522
BC Oleaceae *26475
IT Major Concepts
Biochemistry and Molecular Biophysics
IT Chemicals & Biochemicals
OLEANOLIC ACID; BETULINIC ACID; ALPHA-AMYRIN; BETA-AMYRIN; UVAOL; ERYTHRODIOL; PHENYL; 2-PHENYLETHANOL
IT Miscellaneous Descriptors
ALPHA=AMYRIN; BETA=AMYRIN; BETULINIC ACID; ERYTHRODIOL; METHYL PHENYL ESTERS; OLEANOLIC ACID; SITOSTEROL; TRIACYLGLYCEROLS; UVAOL; 2=PHENYLETHANOL 1-ESTERS
ORGN Super Taxa
Oleaceae: Dicotyledones, Angiospermae, Spermatophyta, Plantae
ORGN Organism Name
Olea europaea (Oleaceae)
ORGN Organism Superterms
angiosperms; dicots; plants; spermatophytes; vascular plants
RN 508-02-1 (OLEANOLIC ACID)
472-15-1 (BETULINIC ACID)
638-95-9 (ALPHA-AMYRIN)
559-70-6 (BETA-AMYRIN)
545-46-0 (UVAOL)

545-48-2 (ERYTHRODIOL)
2396-01-2D (PHENYL)
60-12-8 (2-PHENYLETHANOL)

L6 ANSWER 7 OF 7 FSTA COPYRIGHT 2002 IFIS
AN 1988(10):N0033 FSTA
TI Separation and concentration of natural antioxidants from the rape of olives.
AU Sheabar, F. Z.; Neeman, I.
CS Dep. of Food Eng. & Biotech., Technion, Israel Inst. of Tech., Haifa 32000, Israel
SO Journal of the American Oil Chemists' Society, (1988), 65 (6) 990-993, 18 ref.
ISSN: 0003-021X
DT Journal
LA English
AB Polyphenols (PP) are natural antioxidants in ***olive*** ***leaves*** and fruit. ***Olive*** oil extracted mechanically contains less PP than solvent extracted oil. PP were isolated from rape (a major byproduct of mechanical olive oil extraction) of Israeli olive oil using (i) ***hexane*** , (ii) acetone and (iii) ***ethanol*** in a sequential procedure to yield 3 fractions. (i) contained few PP (0.05%), whereas (ii) and (iii) contained about 5% PP each. These 2 also contained about 3% o-diphenol. Addition of 100 p.p.m. purified (ii) to refined olive or soy oils partially inhibited oxidative deterioration in the dark at 100.degree.C, as measured via peroxide and anisidine values (results given in graphs).
CC N (Fats, Oils and Margarine)
CT ANTIOXIDANTS; BY-PRODUCTS; EXTRACTION; OILS VEGETABLE; OLIVE OILS; PHENOLS; POLYPHENOLS; SEPARATION; SOLVENTS; OLIVE OILS RAPE; RAPE

=> s l1 (3a) (leaf or leaves or leafe or leafes)

L7 1374 L1 (3A) (LEAF OR LEAVES OR LEAFE OR LEAFES)

=> s l7 (s) (freez? or frozen or lyophil?)

L8 12 L7 (S) (FREEZ? OR FROZEN OR LYOPHIL?)

=> s l8 (s) (benzene or chloroform or hexane)

L9 0 L8 (S) (BENZENE OR CHLOROFORM OR HEXANE)

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.47	38.70

STN INTERNATIONAL LOGOFF AT 13:26:55 ON 09 JUL 2002

L Number	Hits	Search Text	DB	Time stamp
1	7	(olive near3 (leaf or leaves)) same (benzene or chloroform or phenol or hexane)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:53
2	4	(olive near3 (leaf or leaves)) same (boil$4 or lyophiliz$6 or freeze$6)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:55
3	112	protein or enzyme) near3(alcohol near3 denatur$6	USPAT; EPO; JPO; DERWENT	2002/07/09 12:57
4	0	(protein or enzyme) near3(alcohol near3 denatur$6) near (plant or herb)	USPAT; EPO; JPO; DERWENT	2002/07/09 12:57
5	27297	olive or olea adj europa$3	USPAT; EPO; JPO; DERWENT	2002/07/09 12:59
6	149	(olive or olea adj europa$3) near3 (leaf or leaves)	USPAT; EPO; JPO; DERWENT	2002/07/09 13:00
7	2	((olive or olea adj europa$3) near3 (leaf or leaves)) same (chloroform or benzene or hexane) same (methanol$3 or ethanol$3 or alcohol$3)	USPAT; EPO; JPO; DERWENT	2002/07/09 13:01